



APPENDIX

40. (Amended) An image processing apparatus having a carriage on which an image reading device for reading an image of original is detachably mounted, said apparatus comprising:

an obtaining unit, arranged to obtain [means for obtaining] identification information representing an image reading device mounted on the [said] carriage;

a storage, arranged to store [means for storing white] reference data, which represents [representing] a signal level [white reference] outputted from an [said] image reading device in a process for obtaining predetermined reference data, in association with identification information of the image reading device; and

a setter, arranged to read [setting means for reading] out the [white] reference data from said storage [means] corresponding to the identification information obtained by said obtaining unit [detection means] and set [setting] the readout [white] reference data in the [said] image reading device mounted on the [said] carriage.

41. (Amended) The apparatus according to claim 40, wherein [said carriage on which] a print head unit for forming an image on a printing medium is detachably [detachably] mounted on the carriage instead of the image reading device.

43. (Amended) The apparatus according to claim 40, wherein the identification information is stored in the [said] image reading device.

44. (Amended) The apparatus according to claim 40, further comprising a detector arranged to detect [detection means for detecting] an ambient temperature near the [said] carriage, wherein said storage [means] further stores the ambient temperature in obtaining the [white] reference data.

49. (Amended) An image reading method for an image processing apparatus having a carriage on which an image reading device for reading an image of original is detachably mounted, said method comprising the steps of:

obtaining identification information representing an image reading device mounted on the [said] carriage;

reading out [white] reference data corresponding to the obtained identification information [obtained in the obtaining step] from a storage, wherein the storage [means which] stores reference data, which represents [representing] a signal level outputted [white reference] from an [said] image reading device in a process for obtaining predetermined reference data, in association with [the] identification information of the image reading device; and

setting the readout [white] reference data in the [said] image reading device mounted on the [said] carriage.

51. (Amended) A computer program product comprising a computer readable medium storing [having] computer program code, for reading an image of original by using an image processing apparatus having a carriage on which an image reading device for

reading an image of original is detachably mounted, said product comprising process procedure codes for:

[obtaining process procedure codes for] obtaining identification information representing [white reference data of] an image reading device mounted on the [said] carriage;

[reading process procedure codes for] reading out [white] reference data corresponding to the obtained identification [similar to the similar white reference data] information [obtained in the obtaining process] from a storage, wherein the storage [means which] stores [white] reference data, which represents [representing] a signal level outputted [white reference] from an [said] image reading device in a process for obtaining predetermined reference data, in association with identification information of the image reading device; and

[setting process procedure codes for] setting the readout [white] reference data in the [said] image reading device mounted on the [said] carriage.

60. (Amended) An image processing apparatus having a carriage on which an image reading device for reading an image of original is detachably mounted, said apparatus comprising:

an obtaining unit, arranged to obtain [means for obtaining] identification information representing an image reading device mounted on the [said] carriage;

a storage, arranged to store [means for storing white] reference data, which represents [representing] a signal level outputted [white reference] from an [said] image reading device in a process for obtaining predetermined reference data, in association with [the] identification information of the image reading device;

a determiner, arranged to determine [determination means for determining] whether the [white] reference data corresponding to the obtained identification information [from said obtaining means] is stored in said storage [means];

an updater, arranged to update [updating means for updating] the [white] reference data stored in said storage [means] to new [white] reference data obtained from the [said] image reading device mounted on the [said] carriage when the determination result of said determiner [determination means] determines that the [white] reference data corresponding to the obtained identification information is not stored [in said storage means]; and

a setter, arranged to set [setting means for setting] the [white] reference data corresponding to the obtained identification information [from said obtaining means] in the [said] image reading device mounted on the [said] carriage.

61. (Amended) The apparatus according to claim 60, wherein [said carriage on which] a print head unit for forming an image on a printing medium is detachably mounted on the carriage instead of the image reading device.

63. (Amended) The apparatus according to claim 60, wherein the identification information is stored in the [said] image reading device.

64. (Amended) The apparatus according to claim 60, further comprising a detector arranged to detect [detection means for detecting] an ambient temperature near the [said] carriage, wherein said storage [means] further stores the ambient temperature in obtaining the [white] reference data.

65. (Amended) An image processing apparatus having a carriage on which an image reading device for reading an image of original is detachably mounted, said apparatus comprising:

a storage, arranged to store [means for storing white] reference data representing a signal level outputted [white reference] from an [said] image reading device in a process for obtaining predetermined reference data; and

a obtaining unit, arranged to obtain the [means for obtaining white] reference data of an image reading device mounted on the [said] carriage;

a determiner, arranged to determine [determination means for determining] whether [white] reference data similar to the obtained [white] reference data [from said obtaining means] is stored in said storage [means];

an updater, arranged to update [updating means for updating the white reference data stored in] said storage [means] to store the obtained [new white] reference data [obtained from said image reading device mounted on said carriage] when the determination result of said determiner [determination means] determines [that] the similar [white] reference data is not stored [in said storage means]; and

a setter, arranged to read [setting means for reading] out the [white] reference data, which has been stored by said updater or is the similar [to the white] reference data, from said storage [obtaining mean] and set [setting] the readout [white] reference data in the [said] image reading device mounted on the [said] carriage.

66. (Amended) The apparatus according to claim 65, wherein [said carriage on which] a print head unit for forming an image on a printing medium is detachably mounted on the carriage instead of the image reading device.

67. (Amended) The apparatus according to claim 65, wherein said determiner [determination means] determines the similar [white] reference data on the basis of variance of the obtained [white] reference data.

68. (Amended) The apparatus according to claim 65, further comprising a detector arranged to detect [detection means for detecting] an ambient temperature near the [said] carriage, wherein said storage [means] further stores the ambient temperature in obtaining the [white] reference data.

69. (Amended) An image reading method for an image processing apparatus having a carriage on which an image reading device for reading an image of original is detachably mounted, said method comprising the steps of:

obtaining identification information representing an image reading device mounted on the [said] carriage;

determining whether [white] reference data corresponding to the obtained identification information in a storage, wherein the storage [means which] stores the [white] reference data, which represents [representing] a signal level outputted [white reference] from an [said] image reading device in a process for obtaining predetermined reference data, in association with [the] identification information of the image reading device;

· updating the [white] reference data stored in said storage [means] to new [white] reference data obtained from the [said] image reading device mounted on the [said] carriage when the determination result represents that the [white] reference data corresponding to the obtained identification information is not stored [in said storage means]; and

setting the [white] reference data corresponding to the obtained identification information in the [said] image reading device mounted on the [said] carriage.

70. (Amended) An image reading method for an image processing apparatus having a carriage on which an image reading device for reading an image of original is detachably mounted, said method comprising the steps of:

obtaining reference data of [identification information representing] an image reading device mounted on the [said] carriage;

determining whether [white] reference data similar to the obtained [white] reference data is stored in a storage, wherein the storage [means which] stores the [white] reference data representing a signal level outputted [white reference] from an [said] image reading device in a process for obtaining predetermined reference data;

updating the [white reference data stored in said] storage [means] to store the obtained [new white] reference data [obtained from said image reading device mounted on said carriage] when the determination result represents that the similar [white] reference data is not stored [in said storage means]; and

reading out the [white] reference data, which has been stored in the updating step or is the similar [to the obtained white] reference data, from the [said] storage

[means] and setting the readout [white] reference data in the [said] image reading device mounted on the [said] carriage.

71. (Amended) A computer program product comprising a computer readable medium storing [having] computer program code, for reading an image of original by using an image processing apparatus having a carriage on which an image reading device for reading an image of original is detachably mounted, said product comprising process procedure codes:

[obtaining process procedure codes for] obtaining identification information representing an image reading device mounted on the [said] carriage;

[determining process procedure codes for] determining whether [white] reference data corresponding to the obtained identification information in a storage, wherein the storage [means which] stores the [white] reference data, which represents [representing] a signal level outputted [white reference] from an [said] image reading device in a process for obtaining predetermined reference data, in association with [the] identification information of the image reading device;

[updating process procedure codes for] updating the [white] reference data stored in the [said] storage [means] to new [white] reference data obtained from the [said] image reading device mounted on the [said] carriage when the determination result represents that the [white] reference data corresponding to the obtained identification information is not stored [in said storage means]; and

[setting process procedure codes for] setting the [white] reference data corresponding to the obtained identification information in the [said] image reading device mounted on the [said] carriage.

72. (Amended) A computer program product comprising a computer readable medium storing [having] computer program code, for reading an image of original by using an image processing apparatus having a carriage on which an image reading device for reading an image of original is detachably mounted, said product comprising process procedure codes:

[obtaining process procedure codes for] obtaining reference data of [identification information representing] an image reading device mounted on the [said] carriage;

[determining process procedure codes for] determining whether [white] reference data similar to the obtained [white] reference data is stored in a storage, wherein the storage [means which] stores the [white] reference data representing a signal level outputted [white reference] from an [said] image reading device in a process for obtaining predetermined reference data;

[updating process procedure codes for] updating the [white reference data stored in said] storage [means] to store the obtained [new white] reference data [obtained from said image reading device mounted on said carriage] when the determination result represents that the similar [white] reference data is not stored [in said storage means]; and

[setting process procedure codes for] reading out the [white] reference data, which has been stored in the updating process or is the similar [to the obtained white] reference

data, from the [said] storage [means] and setting the readout [white] reference data in the [said] image reading device mounted on the [said] carriage.